

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	11	(pyridazine\$2 or pyrazine\$2) with (spirobifluorene\$2 or indenofluorene\$2 or tetraarylmethane\$2 or triptycene)and (428/690).cds.	US-PGPUB; USPAT	OR	ON	2011/01/29 10:41
L2	3	"2004045662" or "2004339070" or "2004103576"	JPO	OR	ON	2011/01/29 10:55
S3	1	"20020034659"	US-PGPUB; USPAT	OR	OFF	2009/06/09 13:33
S4	1	"6329082".pn.	US-PGPUB; USPAT	OR	ON	2009/06/09 13:36
S5	1	"5840217".pn.	US-PGPUB; USPAT	OR	ON	2009/06/09 13:36
S6	1	"6352791".pn.	US-PGPUB; USPAT	OR	ON	2009/06/09 13:52
S7	1	"6229012".pn.	US-PGPUB; USPAT	OR	ON	2009/06/09 13:53
S8	1814	(OLED or (light with emitt\$3) and phosphorescent and (hole adj3 block\$3)	US-PGPUB; USPAT	OR	ON	2009/06/09 13:55
S9	35	(OLED or (light with emitt\$3) and phosphorescent and (hole adj3 block\$3) with (heterocyc\$7 or triazine\$2 or heteroaryl or \$5aryl)	US-PGPUB; USPAT	OR	ON	2009/06/09 13:58
S10	51	(OLED or (light with emitt\$3) and phosphorescent and (hole adj3 block\$3) and triazine\$ and spirobifluorene	US-PGPUB; USPAT	OR	ON	2009/06/09 14:01
S11	26	triazine\$ with spirobifluorene	US-PGPUB; USPAT	OR	ON	2009/06/09 14:05
S12	5	triazine\$ with spirofluorene	US-PGPUB; USPAT	OR	ON	2009/06/09 14:27
S13	67	hetero\$7 with spirobifluorene	US-PGPUB; USPAT	OR	ON	2009/06/09 14:27
S16	1	"20020034659"	US-PGPUB; USPAT	OR	ON	2009/06/09 15:41
S17	1	"20020034659"	US-PGPUB; USPAT	OR	ON	2009/06/09 16:01
S18	1	"20040147742".pn.	US-PGPUB; USPAT	OR	ON	2009/06/09 16:08
S19	121	triazine\$ and spirobifluorene	US-PGPUB; USPAT	OR	ON	2009/06/09 16:17

S22	6	triazine\$ and spirobifluorene	DERWENT	OR	ON	2009/06/09 16:18
S23	1	"2007520875".pn.	DERWENT	OR	ON	2009/06/09 16:21
S24	8153	phosphorescent and (Perylene or molybdenum or tungsten or rhenium or ruthenium or osmium or rhodium or iridium or palladium or platinum or silver or gold or europium)	US-PGPUB; USPAT	OR	ON	2009/06/10 08:47
S25	182	phosphorescent and Perylene with (molybdenum or tungsten or rhenium or ruthenium or osmium or rhodium or iridium or palladium or platinum or silver or gold or europium)	US-PGPUB; USPAT	OR	ON	2009/06/10 08:48
S26	8	phosphorescent and Perylene adj3 (molybdenum or tungsten or rhenium or ruthenium or osmium or rhodium or iridium or palladium or platinum or silver or gold or europium)	US-PGPUB; USPAT	OR	ON	2009/06/10 08:48
S27	776	Perylene with complex\$3 with (molybdenum or tungsten or rhenium or ruthenium or osmium or rhodium or iridium or palladium or platinum or silver or gold or europium)	US-PGPUB; USPAT	OR	ON	2009/06/10 08:51
S28	206	Perylene with complex\$3 with (molybdenum or tungsten or rhenium or ruthenium or osmium or rhodium or iridium or palladium or platinum or silver or gold or europium) and electrolumin\$7	US-PGPUB; USPAT	OR	ON	2009/06/10 08:51
S29	0	(Perylene adj3 dop\$3) adj3 (molybdenum or tungsten or rhenium or ruthenium or osmium or rhodium or iridium or palladium or platinum or silver or gold or europium) and electrolumin\$7	US-PGPUB; USPAT	OR	ON	2009/06/10 08:54
S30	186	(Perylene adj3 dop\$3)	US-PGPUB; USPAT	OR	ON	2009/06/10 08:55
S31	8	(Perylene adj3 dop\$3) with metal	US-PGPUB; USPAT	OR	ON	2009/06/10 08:55
S32	103	(phosphorescent adj4 dop\$3) adj4 (molybdenum or tungsten or rhenium or ruthenium or osmium or rhodium or iridium or palladium or platinum or silver or gold or europium)	US-PGPUB; USPAT	OR	ON	2009/06/10 08:59

S33	5	(phosphorescent adj4 dop\$3) adj4 (molybdenum or tungsten or rhenium or ruthenium or osmium or rhodium or iridium or palladium or platinum or silver or gold or europium) and spirobifluorene	US-PGPUB; USPAT	OR	ON	2009/06/10 08:59
S36	43	(phosphorescent adj4 dop\$3) adj4 (molybdenum or tungsten or rhenium or ruthenium or osmium or rhodium or iridium or palladium or platinum or silver or gold or europium) and perylene	US-PGPUB; USPAT	OR	ON	2009/06/10 09:04
S37	44	(phosphorescent adj4 dop\$3) and spirobifluorene	US-PGPUB; USPAT	OR	ON	2009/06/10 09:05
S38	1	"7498437".pn.	US-PGPUB; USPAT	OR	ON	2009/06/10 09:08
S39	69	(phosphorescent adj4 emit\$3) and spirobifluorene	US-PGPUB; USPAT	OR	ON	2009/06/10 09:18
S40	1	"6229012".pn.	US-PGPUB; USPAT	OR	ON	2009/06/10 09:21
S41	99	spirobifluorene\$ with (carbazoles or ketones or imines or phosphine oxides or phosphine sulfides or phosphine selenides or phosphazenes or sulfones or sulfoxides or silanes or polypodal adj3 metal or oligophenylene\$)	US-PGPUB; USPAT	OR	ON	2009/06/10 09:25
S42	12	spirobifluorene\$ adj4 (carbazoles or ketones or imines or phosphine oxides or phosphine sulfides or phosphine selenides or phosphazenes or sulfones or sulfoxides or silanes or polypodal adj3 metal or oligophenylene\$)	US-PGPUB; USPAT	OR	ON	2009/06/10 09:25
S43	525	spirobifluorene\$ and (carbazoles or ketones or imines or phosphine oxides or phosphine sulfides or phosphine selenides or phosphazenes or sulfones or sulfoxides or silanes or polypodal adj3 metal or oligophenylene\$)	US-PGPUB; USPAT	OR	ON	2009/06/10 09:28
S44	42	spirobifluorene\$ and (carbazoles or ketones or imines or phosphine oxides or phosphine sulfides or phosphine selenides or phosphazenes or sulfones or sulfoxides or silanes or polypodal adj3 metal or oligophenylene\$) with phosphores\$7	US-PGPUB; USPAT	OR	ON	2009/06/10 09:29

S45	109	spirobifluorene\$ and triazine and polymer	US-PGPUB; USPAT	OR	ON	2009/06/11 08:42
S46	11	spirobifluorene\$ and triazine with polymer	US-PGPUB; USPAT	OR	ON	2009/06/11 08:42
S47	4669	triazine with polymer	US-PGPUB; USPAT	OR	ON	2009/06/11 09:32
S49	0	triazine with polymer with spirobifluorene\$	EPO; JPO	OR	ON	2009/06/11 09:33
S50	500	triazine with polymer	EPO; JPO	OR	ON	2009/06/11 09:33
S51	1	"6870198".pn.	USPAT	OR	OFF	2009/06/20 08:27
S52	0	perylene adj phosphores\$3	US-PGPUB; USPAT	OR	ON	2009/06/20 08:33
S53	0	perylene adj3 phosphores\$3	US-PGPUB; USPAT	OR	ON	2009/06/20 08:33
S54	0	perylene\$5 adj3 phosphores\$3	US-PGPUB; USPAT	OR	ON	2009/06/20 08:33
S55	1	perylene\$5 with phosphores\$3	US-PGPUB; USPAT	OR	ON	2009/06/20 08:34
S56	0	perylene\$5 with phosphores\$3	EPO; JPO	OR	ON	2009/06/20 08:35
S57	1	\$5perylene\$5 with phosphores\$4	EPO; JPO	OR	ON	2009/06/20 08:36
S58	137	\$5perylene\$5 with phosphores\$4	US-PGPUB; USPAT	OR	ON	2009/06/20 08:36
S59	13	\$5perylene\$5 adj3 phosphores\$4	US-PGPUB; USPAT	OR	ON	2009/06/20 08:37
S60	1	"6872824"	USPAT	OR	OFF	2009/12/16 09:11
S61	3	"2005053055"	DERWENT	OR	OFF	2009/12/16 09:13
S62	1	"6352791".pn.	US-PGPUB; USPAT	OR	OFF	2009/12/16 09:15
S63	1	"6229012".pn.	US-PGPUB; USPAT	OR	OFF	2009/12/16 09:16
S64	212	(pyridazine\$ or pyrroline\$ or pyrazine\$ or triazine\$) and spirobifluorene	US-PGPUB; USPAT	OR	ON	2009/12/16 09:34
S65	0	(pyridazine\$ or pyrroline\$ or pyrazine\$ or triazine\$) and spirobifluorene and (hole adj2 block43)	US-PGPUB; USPAT	OR	ON	2009/12/16 09:34
S66	233	(pyridazine\$ or pyrimidine\$ or pyrazine\$ or triazine\$) and spirobifluorene	US-PGPUB; USPAT	OR	ON	2009/12/16 09:36
S67	41	(pyridazine\$ or pyrimidine\$ or pyrazine\$ or triazine\$) with spirobifluorene	US-PGPUB; USPAT	OR	ON	2009/12/16 09:36

S68	0	(hole adj2 blockinh) and spirobifluorene	US-PGPUB; USPAT	OR	ON	2009/12/16 09:37
S69	609	spirobifluorene	US-PGPUB; USPAT	OR	ON	2009/12/16 09:37
S70	212	spirobifluorene and (hole with blocking)	US-PGPUB; USPAT	OR	ON	2009/12/16 09:38
S71	88	spirobifluorene and (hole with blocking) and (pyridazine\$ or pyrimidine\$ or pyrazine\$ or triazine\$)	US-PGPUB; USPAT	OR	ON	2009/12/16 09:38
S72	4887	triazine with polymer	US-PGPUB; USPAT	OR	ON	2009/12/16 12:06
S73	212	(pyridazine\$ or pyrimidine\$ or pyrazine\$ or triazine\$) and spirobifluorene	US-PGPUB; USPAT	OR	ON	2009/12/16 12:06
S74	11	S72 and S73	US-PGPUB; USPAT	OR	ON	2009/12/16 12:06
S75	1	"5840217".pn.	US-PGPUB; USPAT	OR	ON	2009/12/16 12:09
S76	1	"5077142".pn.	US-PGPUB; USPAT	OR	ON	2009/12/16 12:10
S77	95	spirobifluorene\$ and (carbazoles or ketones or imines or phosphine oxides or phosphine sulfides or phosphine selenides or phosphazenes or sulfones or sulfoxides or silanes or polypodal adj3 metal or oligophenylene\$) and (phosphorescent with dop\$5)	US-PGPUB; USPAT	OR	ON	2009/12/16 12:12
S78	89	spirobifluorene\$ and (carbazoles or ketones or imines or (phosphine adj2 oxide \$2) or (phosphine adj2 sulfide \$2) or (phosphine adj2 selenide \$2) or phosphazene\$2 or sulfone \$2 or sulfoxide\$2 or silane\$2 or (polypodal adj3 metal) or oligophenylene\$) and (phosphorescent with dop\$5)	US-PGPUB; USPAT	OR	ON	2009/12/16 12:16
S79	1	"6329082".pn.	US-PGPUB; USPAT	OR	ON	2009/12/16 12:35
S80	110	(pyridazine\$5 or pyrimidine\$5 or pyrazine\$5 or triazine\$5) with (hole adj block\$3) or (electron adj2 transport\$3) and cbp with (phosphorescent adj dop\$5)	US-PGPUB; USPAT	OR	ON	2009/12/16 12:39
S81	9	(pyridazine\$5 or pyrimidine\$5 or pyrazine\$5 or triazine\$5) with ((hole adj block\$3) or (electron adj2 transport\$3)) and cbp with (phosphorescent adj dop\$5)	US-PGPUB; USPAT	OR	ON	2009/12/16 12:41

S82	43	(pyridazine\$5 or pyrimidine\$5 or pyrazine\$5 or triazine\$5) with ((hole adj3 block\$3) or (electron adj2 transpot\$3)) and cbp with dop\$5	US-PGPUB; USPAT	OR	ON	2009/12/16 12:43
S83	1	"6329082".pn.	US-PGPUB; USPAT	OR	ON	2009/12/16 12:54
S84	1	"5840217".pn.	US-PGPUB; USPAT	OR	ON	2009/12/16 13:08
S85	49	((HORST) near2 (VESTWEBER)). INV.	US-PGPUB; USPAT	OR	OFF	2010/05/14 14:19
S86	23	((ANJA) near2 (GERHARD)). INV.	US-PGPUB; USPAT	OR	OFF	2010/05/14 14:19
S87	1	((PHILIPP) near2 (STOBEL)). INV.	US-PGPUB; USPAT	OR	OFF	2010/05/14 14:19
S88	160	triazine\$ and spirobifluorene	US-PGPUB; USPAT	OR	ON	2010/05/14 14:21
S89	28	((HORST) near2 (VESTWEBER)). INV. and S88	US-PGPUB; USPAT	OR	ON	2010/05/14 14:21
S90	1783	(pyridazine or pyrazine or triazine) and ((hole adj3 block \$3) or (electron adj3 transpot \$3))	US-PGPUB; USPAT	OR	ON	2010/09/21 13:49
S91	39	(pyridazine or pyrazine or triazine) with ((hole adj3 block \$3) or (electron adj3 transpot \$3))	US-PGPUB; USPAT	OR	ON	2010/09/21 13:49
S92	3	"2003021694"	DERWENT	OR	ON	2010/09/21 13:59
S93	1285	(pyridazine or pyrazine or triazine) with (spirobifluorene or fluorene or indenofluorene or tetraarylmethane or tetraphenylmethane)	US-PGPUB; USPAT	OR	ON	2010/09/21 14:06
S94	34958	((hole adj3 block\$3) or (electron adj3 transpot\$3))	US-PGPUB; USPAT	OR	ON	2010/09/21 14:07
S95	217	S93 and S94	US-PGPUB; USPAT	OR	ON	2010/09/21 14:07
S96	1	S93 with S94	US-PGPUB; USPAT	OR	ON	2010/09/21 14:07
S97	3	(pyridazine and pyrazine and triazine) with ((hole adj3 block \$3) or (electron adj3 transpot \$3))	US-PGPUB; USPAT	OR	ON	2010/09/21 14:44
S98	3	(pyridazine and triazine) with ((hole adj3 block\$3) or (electron adj3 transpot\$3))	US-PGPUB; USPAT	OR	ON	2010/09/21 14:45
S99	3	(pyrazine and triazine) with ((hole adj3 block\$3) or (electron adj3 transpot\$3))	US-PGPUB; USPAT	OR	ON	2010/09/21 14:45

S100	580	(pyrazine and triazine) and ((hole adj3 block\$3) or (electron adj3 transpot\$3))	US-PGPUB; USPAT	OR	ON	2010/09/21 14:45
S101	528	(pyrazine with triazine) and ((hole adj3 block\$3) or (electron adj3 transpot\$3))	US-PGPUB; USPAT	OR	ON	2010/09/21 14:46
S102	528	(pyrazine with triazine) and (hole adj3 block\$3)	US-PGPUB; USPAT	OR	ON	2010/09/21 14:46
S103	0	(pyrazine with triazine) near3 (hole adj3 block\$3)	US-PGPUB; USPAT	OR	ON	2010/09/21 14:46
S104	3	(pyrazine with triazine) with (hole adj3 block\$3)	US-PGPUB; USPAT	OR	ON	2010/09/21 14:46
S105	1	"6194090".pn.	US-PGPUB; USPAT	OR	ON	2010/09/21 14:48
S106	1	"20040062952"	US-PGPUB; USPAT	OR	ON	2010/09/21 14:56
S107	0	spirobifluorene with triazine4	US-PGPUB; USPAT	OR	ON	2010/09/21 15:27
S108	42	spirobifluorene with triazine\$	US-PGPUB; USPAT	OR	ON	2010/09/21 15:27
S109	29	spirobifluorene with triazine\$ and ((hole adj3 block\$3) or (electron adj3 transpot\$3))	US-PGPUB; USPAT	OR	ON	2010/09/21 15:27
S110	1	"6229012".pn.	US-PGPUB; USPAT	OR	ON	2010/09/21 20:56
S111	1	"6229012".pn.	USPAT	OR	OFF	2010/09/26 13:37
S112	1	"20070051944"	US-PGPUB; USPAT	OR	ON	2011/01/27 18:33
S113	1	"20030042850"	US-PGPUB; USPAT	OR	ON	2011/01/27 18:35
S114	1	spirobifluorene adj3 triazine	US-PGPUB; USPAT	OR	ON	2011/01/27 18:36
S115	20	spirobifluorene adj2 fluorene\$2	US-PGPUB; USPAT	OR	ON	2011/01/27 18:41
S116	1	"20040147742"	US-PGPUB; USPAT	OR	ON	2011/01/27 19:07
S117	1	"6229012".pn.	US-PGPUB; USPAT	OR	ON	2011/01/27 22:33
S118	11644	(pyridazine\$2 or pyrazine\$2) with hetero\$5	US-PGPUB; USPAT	OR	ON	2011/01/29 08:46
S119	6	((pyridazine\$2 or pyrazine\$2) with hetero\$5) and electro lumin\$5	US-PGPUB; USPAT	OR	ON	2011/01/29 08:47
S120	75	(pyridazine\$2 or pyrazine\$2) with (spirobifluorene\$2 or indenofluorene\$2 or tetraarylmethane\$2 or triptycene)	US-PGPUB; USPAT	OR	ON	2011/01/29 08:52

S121	0	(pyridazine\$2 or pyrazine\$2) adj4 (spirobifluoren\$2 or indenofluorene\$2 or tetraaryl methane\$2 or triptycene)	US-PGPUB; USPAT	OR	ON	2011/01/29 08:53
S122	45	(pyridazine\$2 or pyrazine\$2) with (spirobifluoren\$2 or indenofluorene\$2 or tetraaryl methane\$2 or triptycene) and electrolumin\$6	US-PGPUB; USPAT	OR	ON	2011/01/29 08:53

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